

SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN
(AUTONOMOUS)

(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)

Chromepet, Chennai — 600 044.

B.Sc.(CS) - END SEMESTER EXAMINATIONS APRIL-2023

SEMESTER - VI

20UCSCT6008 - Python for Scientific Computing

Total Duration : 2 Hrs 30 Mins.

Total Marks : 60

Section B

Answer any **SIX** questions ($6 \times 5 = 30$ Marks)

1. Sketch the different types operators in python.
2. Describe the way to create and executing a python program.
3. Explain the importance of exception handling technique?
4. Classify the loops in python.
5. Relate the different type of file accessing mode when open a new file.
6. Describe 2Dnumpy array.
7. Examine the use of filtering methods in pandas
8. Apply the method of indexing to select single column, multiple column data.

Section C

Answer any **THREE** questions ($3 \times 10 = 30$ Marks)

9. Describe the way of installing python in various operating systems.
10. Prepare a list with subject name in one list , date of exam in another list. Modify the list by adding, deleting list elements.
11. Illustrate the object oriented concept in python.
12. Justify the use of scientific package for programming.
13. Determine the use of aggregate function in pandas with example program.
